

**Pending Claims:**

Claims 1-59. (Canceled)

Claim 60. (Original): A composition of matter comprising:

(a) a plurality of nucleic acid molecules capable of detecting altered expression due to exposure to ultraviolet radiation, the nucleic acid molecules being selected from the groups consisting of:

(i) a first response group comprising altered expression of at least one nucleic acid molecule encoding a transcription factor protein, at least one nucleic acid molecule encoding a signal transducing protein, and at least one nucleic acid molecule encoding a mitochondrial protein;

(ii) a second response group comprising altered expression of at least one nucleic acid molecule encoding a secreted growth factor, at least one nucleic acid molecule encoding a cytokine, and at least one nucleic acid molecule encoding a chemokine; and

(iii) a third response group comprising altered expression of at least one nucleic acid molecule encoding an actin-binding protein, at least one nucleic acid molecule encoding a desmosomal protein, and at least one nucleic acid molecule encoding a tubulin protein; and

(b) a substrate suitable for binding the nucleic acid molecules.

Claim 61. (Original): The composition of Claim 60, wherein

(a) the first response group consists of a plurality of nucleic acid molecules at least 90% identical to the group of polynucleotides consisting of:

(i) M62831 Human transcription factor ETR101 mRNA, complete cds,

(ii) X68277 H. sapiens CL 100 mRNA for protein tyrosine phosphatase,

- (iii) L04731 H. sapiens translocation T(4:11) of ALL-1 gene to chromosome 4,
- (iv) X56681 Human junD mRNA,
- (v) U20734 Human transcription factor junB (junB) gene, 5' region and complete cds,
- (vi) L38951 H. sapiens importin beta subunit mRNA, complete cds,
- (vii) D87071 Human mRNA for KIAA0233 gene, complete cds,
- (viii) M72885 Human GOS2 gene, 5' flank and cds,
- (ix) M92843 H. sapiens zinc finger transcriptional regulator mRNA, complete cds,
- (x) S81914 IEX-1=radiation-inducible immediate-early gene [human, placenta, mRNA Partial,
- (xi) U72649 Human BTG2 (BTG2) mRNA, complete cds,
- (xii) D86988 Human mRNA for KIAA0221 gene, complete cds,
- (xiii) L19779 H. sapiens histone H2A.2 mRNA, complete cds,
- (xiv) U62317 Chromosome 22q13 BAC Clone CIT987SK-384D8 complete sequence,
- (xv) X04412 Human mRNA for plasma gelsolin,
- (xvi) L27706 Human chaperonin protein (Tcp20) gene complete cds,
- (xvii) X61123 Human BTG1 mRNA,
- (xviii) M60974 growth arrest and DNA-damage-inducible protein (gadd45) mRNA, complete cds,
- (xix) L19437 Human transaldolase mRNA containing transposable element, complete cds,
- (xx) X57985 H. sapiens genes for histones H2B.1 and H2A,
- (xxi) D90086 Human pyruvate dehydrogenase (EC 1.2.4.1) beta subunit gene, exons 1-10,
- (xxii) M34182 Human testis-specific protein kinase gamma-subunit mRNA, complete cds,
- (xxiii) L16862 H. sapiens G protein-coupled receptor kinase (GRK6) mRNA, complete cds,
- (xxiv) D13705 Human mRNA for fatty acids omega-hydroxylase (cytochrome P-450HKV), complete cd,
- (xxv) U37122 Human adducin gamma subunit mRNA, complete cds,
- (xxvi) D45906 H. sapiens mRNA for LIMK-2, complete cds,
- (xxvii) U07664 Human HB9 homeobox gene, exons 2 and 3 and complete cds,
- (xxviii) D87438 Human mRNA for KIAA0251 gene, partial cds,

(xxix) L37042 H. sapiens casein kinase I alpha isoform (CSNK1A1) mRNA, complete cds,  
(xxx) D14043 Human mRNA for MGC-24, complete cds,  
(xxxi) D13988 Human rab GDI mRNA, complete cds,  
(xxxii) U28480 Uncoupling Protein Uc,  
(xxxiii) D50840 H. sapiens mRNA for ceramide glucosyltransferase, complete cds,  
(xxxiv) M55265 Human casein kinase II alpha subunit mRNA, complete cds,  
(xxxv) M96803 Human general beta-spectrin (SPTBN1) mRNA, complete cds,  
(xxxvi) U89336 Human HLA class III region containing NOTCH4 gene, partial sequence,  
homeobox P,  
(xxxvii) D87442 Human mRNA for KIAA0253 gene, partial cds,  
(xxxviii) J03161 Human serum response factor (SRF) mRNA, complete cds,  
(xxxix) D86965 Human mRNA for KIAA0210 gene, complete cds,  
(xl) U17327 Human neuronal nitric oxide synthase (NOS1) mRNA, complete cds,  
(xli) D86966 Human mRNA for KIAA0211 gene, complete cds,  
(xlii) D85527 H. sapiens mRNA for LIM domain, partial cds,  
(xliii) U42031 Human 54 kDa progesterone receptor-associated immunophilin FKBP54 mRNA,  
partial,  
(xliv) X59434 Human rohu mRNA for rhodanese,  
(xlv) M13929 Human c-myc-P64 mRNA, initiating from promoter P0, (HLmyc2.5) partial cds,  
and  
(xlvi) J05211 Desmoplakin;

(b) the second response group consists of a plurality of nucleic acid molecules at least 90% identical to the group of polynucleotides consisting of:

(i) M57731 Human gro-beta mRNA, complete cds,  
(ii) S81914 IEX-1=radiation-inducible immediate-early gene [human, placenta, mRNA Partial, 1,  
(iii) Y00787 Human mRNA for MDNCF (monocyte-derived neutrophil chemotactic factor),  
(iv) X54489 Human gene for melanoma growth stimulatory activity (MGSA),

- (v) M72885 Human GOS2 gene, 5' flank and cds,
- (vi) M62831 Human transcription factor ETR101 mRNA, complete cds,
- (vii) M28130 Human interleukin 8 (IL8) gene, complete cds,
- (viii) X57985 H. sapiens genes for histones H2B.1 and H2A,
- (ix) X53800 Human mRNA for macrophage inflammatory protein-2beta (MIP2beta),
- (x) L19779 H. sapiens histone H2A.2 mRNA, complete cds,
- (xi) AF001294 H. sapiens IPL (IPL) mRNA, complete cds,
- (xii) X56681 Human junD mRNA,
- (xiii) S75762 Oncogene Tls/Chop, Fusion Activate,
- (xiv) M84739 Human autoantigen calreticulin mRNA, complete cds,
- (xv) M21302 Human small proline rich protein (sprII) mRNA, clone 174N,
- (xvi) V00599 Tubulin, Bet,
- (xvii) X70326 Macmarck,
- (xviii) D10923 Human mRNA for HM74,
- (xix) D64142 Human mRNA for histone H1x, complete cds,
- (xx) D86974 Human mRNA for KIAA0220 gene, partial cds,
- (xxi) M60974 Human growth arrest and DNA-damage-inducible protein (gadd45) mRNA, complete cds,
- (xxii) X68277 H. sapiens CL 100 mRNA for protein tyrosine phosphatase,
- (xxiii) L13391 Human helix-loop-helix basic phosphoprotein (GOS8) gene, complete cds,
- (xxiv) M31627 Human X box binding protein-1 (XBP-1) mRNA, complete cds,
- (xxv) U40369 Human spermidine/spermine N1-acetyltransferase (SSAT) gene, complete cds,
- (xxvi) X52560 Nuclear Factor Nf-II,
- (xxvii) X61123 Human BTG1 mRNA,
- (xxviii) U20734 Human transcription factor junB (junB) gene, 5' region and complete cds,
- (xxix) U35048 Human TSC-22 protein mRNA, complete cds,
- (xxx) M69043 H. sapiens MAD-3 mRNA encoding Ikb-like activity, complete cds,
- (xxxi) X51345 Human jun-B mRNA for JUN-B protein,

- (xxxii) S68616 Na<sup>+</sup>/H<sup>+</sup> exchanger NHE-1 isoform [human, heart, mRNA, 4516 nt],
- (xxxiii) X89750 H. sapiens mRNA for TGIF protein,
- (xxxiv) X69111 H. sapiens HLH 1R21 mRNA for helix-loop-helix protein,
- (xxxv) U14603 Human protein-tyrosine phosphatase (HU-PP-1) mRNA, partial sequence,
- (xxxvi) X52541 Human mRNA for early growth response protein 1 (hEGR1),
- (xxxvii) D50683 H. sapiens mRNA for TGF-betaIIIR alpha, complete cds,
- (xxxviii) M92843 H. sapiens zinc finger transcriptional regulator mRNA, complete cds,
- (xxxix) X91247 H. sapiens mRNA for thioredoxin reductase,
- (xl) U05875 Human clone pSK1 interferon gamma receptor accessory factor-1 (AF-1) mRNA, comp,
- (xli) L19314 Human HRY gene, complete cds,
- (xlii) M30703 Human amphiregulin (AR) gene, exon 6, clones lambda-ARH(6,12),
- (xliii) U34252 Human gamma-aminobutyraldehyde dehydrogenase mRNA, complete cds,
- (xliv) S78825 Id1,
- (xlv) D85429 H. sapiens gene for heat shock protein 40, complete cds,
- (xlvi) U41766 Human metalloprotease/disintegrin/cysteine-rich protein precursor (MDC9) mRNA,
- (xlvii) U89336 Human HLA class III region containing NOTCH4 gene, partial sequence, homeobox PB,
- (xlviii) M69181 Human nonmuscle myosin heavy chain-B (MYH10) mRNA, partial cds,
- (xlix) D15050 Human mRNA for transcription factor AREB6, complete cds,
- (l) U28386 Human nuclear localization sequence receptor hSRP1alpha mRNA, complete cds,
- (li) L77886 Human protein tyrosine phosphatase mRNA, complete cds,
- (lii) X64330 H. sapiens mRNA for ATP-citrate lyase,
- (liii) U37122 Human adducin gamma subunit mRNA, complete cds,
- (liv) X74008 H. sapiens mRNA for protein phosphatase 1 gamma,
- (lv) U60205 Human methyl sterol oxidase (ERG25) mRNA, complete cds,
- (lvi) X76534 H. sapiens NMB mRNA,

- (lvii) D87071 Human mRNA for KIAA0233 gene, complete cds,
- (lviii) U90716 Human cell surface protein HCAR mRNA, complete cds,
- (lix) M91083 Human DNA-binding protein (HRC1) mRNA, complete cds,
- (lx) U29607 Human methionine aminopeptidase mRNA, complete cds,
- (lxi) M76482 Human 130-kD pemphigus vulgaris antigen mRNA, complete cds,
- (lxii) U72066 H. sapiens CtBP interacting protein CtIP (CtIP) mRNA, complete cds,
- (lxiii) K03195 Human (HepG2) glucose transporter gene mRNA, complete cds,
- (lxiv) X12953 Human rab2 mRNA, YPT1-related and member of ras family,
- (lxv) M60483 Human protein phosphatase 2A catalytic subunit-alpha gene, complete cds,
- (lxvi) U72649 Human BTG2 (BTG2) mRNA, complete cds,
- (lxvii) D14520 Human mRNA for GC-Box binding protein BTEB2, complete cds,
- (lxviii) L08069 Human heat shock protein, E. coli DnaJ homologue mRNA, complete cds,
- (lxix) D50840 H. sapiens mRNA for ceramide glucosyltransferase, complete cds,
- (lxx) L31801 H. sapiens monocarboxylate transporter 1 (SLC16A1) mRNA, complete cds,
- (lxxi) S74017 Nrf2=NF-E2-like basic leucine zipper transcriptional activator [human, hemin-in,
- (lxxii) X87241 H. sapiens mRNA for hFat protein,
- (lxxiii) X52425 Human IL-4-R mRNA for the interleukin 4 receptor,
- (lxxiv) D79994 Human mRNA for KIAA0172 gene, partial cds,
- (lxxv) M58286 H. sapiens tumor necrosis factor receptor mRNA, complete cds,
- (lxxvi) M13829 Human putative raf related protein (pks/a-raf) mRNA, partial cds,
- (lxxvii) X78992 H. sapiens ERF-2 mRNA,
- (lxxviii) U42031 Human 54 kDa progesterone receptor-associated immunophilin FKBP54 mRNA, partial,
- (lxxix) U88629 Human RNA polymerase II elongation factor ELL2, complete cds,
- (lxxx) X52611 Human mRNA for transcription factor AP-2,
- (lxxxii) U28749 Human high-mobility group phosphoprotein isoform I-C (HMGIC) mRNA, complete cds,
- (lxxxii) L00058 Human (GH) germline c-myc proto-oncogene, exon 3 and 3' flank,

(lxxxiii) L26336 Heat Shock Protein, 70 Kda (Gb:Y00371,  
(lxxxiv) L08246 Human myeloid cell differentiation protein (MCL1) mRNA,  
(lxxxv) S73591 brain-expressed HHCPA78 homolog [human, HL-60 acute  
promyelocytic, leukemia cells  
(lxxxvi) J05211 Desmoplakin ,  
(lxxxvii) L00352 Human low density lipoprotein receptor gene, exon 18,  
(lxxxviii) Y13647 Stearoyl-Coenzyme Desaturase,  
(lxxxix) X77794 H. sapiens mRNA for cyclin G1,  
(xc) M90656 Human gamma-glutamylcysteine synthetase (GCS) mRNA, complete cds,  
(xci) M13929 Human c-myc-P64 mRNA, initiating from promoter P0, (HLmyc2.5) partial cds,  
(xcii) D78129 H. sapiens mRNA for squalene epoxidase, partial cds,  
(xciii) X80692 H. sapiens ERK3 mRNA, and  
(xciv) J00120 Proto-Oncogene C-Myc, Alt. Splice 3, Orf 114; and

(c) the third response group consists of a plurality of nucleic acid molecules at least 90% identical to the group of polynucleotides consisting of:

(i) M20030 Human small proline rich protein (sprII) mRNA, clone 930,  
(ii) X53065,  
(iii) M13903 Human involucrin gene, exon 2,  
(iv) M22918 Myosin, Light Chain, Alkali, Smooth Muscle (Gb:U02629), Non-Muscle, Alt. Splice,  
(v) L10343 Human elafin gene, complete cds,  
(vi) M63573 Human secreted cyclophilin-like protein (SCYLP) mRNA, complete cds,  
(vii) M21302 Human small proline rich protein (sprII) mRNA, clone 174N,  
(viii) Y00787 Human mRNA for MDNCF (monocyte-derived neutrophil chemotactic factor),  
(ix) X57985 H. sapiens genes for histones H2B.1 and H2A,  
(x) L05188 H. sapiens small proline-rich protein 2 (SPRR2B) gene, complete cds,  
(xi) X70326 Macmarcks,  
(xii) X67325 H. sapiens p27 mRNA,

- (xiii) L19779 H. sapiens histone H2A.2 mRNA, complete cds,
- (xiv) S81914 IEX-1=radiation-inducible immediate-early gene [human, placenta, mRNA Partial, 1,
- (xv) D45248 Human mRNA for proteasome activator hPA28 subunit beta, complete cds,
- (xvi) Z22548 H. sapiens thiol-specific antioxidant protein mRNA,
- (xvii) M22918 Myosin, Light Chain, Alkali, Smooth Muscle (Gb:U02629), Non-Muscle, Alt. Splice,
- (xviii) X06956 Tubulin, Alpha 1, Isoform 44,
- (xix) V00594 Human mRNA for metallothionein from cadmium-treated cells,
- (xx) M80254 H. sapiens cyclophilin isoform (hCyP3) mRNA, complete cds,
- (xxi) U04636 Human cyclooxygenase-2 (hCox-2) gene, complete cds,
- (xxii) Z14244 H. sapiens coxVIIb mRNA for cytochrome c oxidase subunit VIIb,
- (xxiii) X99920 H. sapiens mRNA for S100 calcium-binding protein A13,
- (xxiv) U62800 Human cystatin M (CST6) mRNA, complete cds,
- (xxv) L08069 Human heat shock protein, E. coli DnaJ homologue mRNA, complete cds,
- (xxvi) L20688 Human GDP-dissociation inhibitor protein (Ly-GDI) mRNA, complete cds,
- (xxvii) M13755 Human interferon-induced 17-kDa/15-kDa protein mRNA, complete cds,
- (xxviii) M60278 Human heparin-binding EGF-like growth factor mRNA, complete cds,
- (xxix) AF001294 H. sapiens IPL (IPL) mRNA, complete cds,
- (xxx) X54489 Human gene for melanoma growth stimulatory activity (MGSA),
- (xxxi) M21186 Human neutrophil cytochrome b light chain p22 phagocyte b-cytochrome mRNA, compl,
- (xxxii) D42040 Human mRNA for KIAA9001 gene, complete cds,
- (xxxiii) V00599 Tubulin, Beta,
- (xxxiv) U37690 Human RNA polymerase II subunit (hsRPB10) mRNA, complete cds,
- (xxxv) M21005 Human migration inhibitory factor-related protein 8 (MRP8) gene, complete cds,
- (xxxvi) M37583 Human histone (H2A.Z) mRNA, complete cds,
- (xxxvii) Z49989 H. sapiens mRNA for smoothelin,



- (xxxviii) L24564 Human Rad mRNA, complete cds,  
(xxxix) D49824 Human HLA-B null allele mRNA,  
(xl) M59465 Human tumor necrosis factor alpha inducible protein A20 mRNA, complete cds,  
(xli) S54005 thymosin beta-10 [human, metastatic melanoma cell line, mRNA, 453 nt],  
(xlii) Z49254 H. sapiens L23-related mRNA,  
(xliii) M22919 Myosin, Light Chain, Alkali, Smooth Muscle (Gb:U02629), Smooth Muscle, Alt. Spli,  
(xliv) U70660 Human copper transport protein HAH1 (HAH1) mRNA, complete cds,  
(xlv) AF006084 H. sapiens Arp2/3 protein complex subunit p41-Arc (ARC41) mRNA, complete cds,  
(xlvi) X62083 H. sapiens mRNA for Drosophila female sterile homeotic (FSH) homologue,  
(xlvii) D86974 Human mRNA for KIAA0220 gene, partial cds,  
(xlviii) M72885 Human GOS2 gene, 5' flank and cds,  
(xlix) S80437 fatty acid synthase {3' region} [human, breast and HepG2 cells, mRNA Partial, 22,  
(l) X04654 Human mRNA for U1 RNA-associated 70K protein,  
(li) t M26311 Human cystic fibrosis antigen mRNA, complete cds,  
(lii) X14850 Human H2A.X mRNA encoding histone H2A.X,  
(liii) M14328 Human alpha enolase mRNA, complete cds,  
(liv) U07919 Human aldehyde dehydrogenase 6 mRNA, complete cds,  
(lv) M28130 Human interleukin 8 (IL8) gene, complete cds,  
(lvi) Z21507 H. sapiens EF-1delta gene encoding human elongation factor-1-delta,  
(lvii) M92934 Human connective tissue growth factor, complete cds,  
(lviii) M27436 Human tissue factor gene, complete cds, with a Alu repetitive sequence in the 3',  
(lix) X74874 H. sapiens gene for RNA pol II largest subunit, exon 1,  
(lx) X57351 Human 1-8D gene from interferon-inducible gene family,  
(lxi) X52979 Human gene for small nuclear ribonucleoproteins SmB and SmB',  
(lxii) U41515 Human deleted in split hand/split foot 1 (DSS1) mRNA, complete cds,  
(lxiii) D28235 Human PTGS2 gene for prostaglandin endoperoxide synthase-2, complete cds,

- (lxiv) Y00503 Human mRNA for keratin 19.
- (lxv) M57731 Human gro-beta mRNA, complete cds,
- (lxvi) D50840 H. sapiens mRNA for ceramide glucosyltransferase, complete cds,
- (lxvii) U52101 Human YMP mRNA, complete cds.
- (lxviii) D13413 Human mRNA for tumor-associated 120 kDa nuclear protein p120, partial cds(carbox,
- (lxix) L42379 H. sapiens bone-derived growth factor (BPGF-1) mRNA, complete cds,
- (lxx) X52426 H. sapiens mRNA for cytokeratin 13,
- (lxxi) J04456 Human 14 kd lectin mRNA, complete cds,
- (lxxii) S78771 NAT=CpG island-associated gene [human, mRNA, 1741 nt],
- (lxxiii) M26730 Human mitochondrial ubiquinone-binding protein (QP) gene, exon 4,
- (lxxiv) U26727 Human p16INK4/MTS1 mRNA, complete cds,
- (lxxv) X92896 H. sapiens mRNA for ITBA2 protein,
- (lxxvi) Z69043 H. sapiens mRNA translocon-associated protein delta subunit precursor,
- (lxxvii) L76568 H. sapiens excision and cross link repair protein (ERCC4) gene, complete genom,
- (lxxviii) M12125 Human fibroblast muscle-type tropomyosin mRNA, complete cds,
- (lxxix) U09937 Human urokinase-type plasminogen receptor, exon 7,
- (lxxx) X15822 Human COX VIIa-L mRNA for liver-specific cytochrome c oxidase (EC 1.9.3.1.),
- (lxxxii) M34516 Human omega light chain protein 14.1 (Ig lambda chain related) gene, exon 3,
- (lxxxii) U53830 H. sapiens interferon regulatory factor 7A mRNA, complete cds,
- (lxxxiii) X82693 H. sapiens mRNA for E48 antigen,
- (lxxxiv) M58026 Human NB-1 mRNA, complete cds,
- (lxxxv) M90657 Human tumor antigen (L6) mRNA, complete cds,
- (lxxxvi) X57579 H. sapiens activin beta-A subunit (exon 2),
- (lxxxvii) D38251 Human mRNA for RPB5 (XAP4), complete cds,
- (lxxxviii) D89667 H. sapiens mRNA for c-myc binding protein, complete cds,
- (lxxxix) AB000584 H. sapiens mRNA for TGF-beta superfamily protein, complete cds,
- (xc) L76200 Human guanylate kinase (GUK1) mRNA, complete cds,

- (xci) J04794 Human aldehyde reductase mRNA, complete cds,
- (xcii) X52882 Human t-complex polypeptide 1 gene,
- (xciii) M79463 Human PML-2 mRNA, complete CDS,
- (xciv) Y09022 H. sapiens mRNA for Not56-like protein,
- (xcv) M12529 Human apolipoprotein E mRNA, complete cds,
- (xcvi) X71129 H. sapiens mRNA for electron transfer flavoprotein beta subunit,
- (xcvii) X83416 H. sapiens PrP gene, exon 2,
- (xcviii) D89052 H. sapiens mRNA for proton-ATPase-like protein, complete cds,
- (xcix) M60974 Human growth arrest and DNA-damage-inducible protein (gadd45) mRNA, complete cds,
- (c) M16364 Human creatine kinase-B mRNA, complete cds,
- (ci) D38305 Human mRNA for Tob, complete cds,
- (cii) X87679 Major Histocompatibility Complex, Class I, E (Gb:M21533),
- (ciii) Z29505 H. sapiens mRNA for nucleic acid binding protein sub2.3,
- (civ) K02574,
- (cv) U09813 Human mitochondrial ATP synthase subunit 9, P3 gene copy, mRNA, nuclear gene enc,
- (cvi) X67951 H. sapiens mRNA for proliferation-associated gene (pag),
- (cvii) J04611 Human lupus p70 (Ku) autoantigen protein mRNA, complete cds,
- (cviii) U09578 H. sapiens MAPKAP kinase (3pK) mRNA, complete cds,
- (cix) X53800 Human mRNA for macrophage inflammatory protein-2beta (MIP2beta),
- (cx) V00599 Tubulin, Beta 2,
- (cxi) U69126 Human FUSE binding protein 2 (FBP2) mRNA, partial cds,
- (cxii) X53416 Human mRNA for actin-binding protein (filamin) (ABP-280),
- (cxiii) U90546 Human butyrophilin (BTF4) mRNA, complete cds,
- (cxiv) M58459 Human ribosomal protein (RPS4Y) isoform mRNA, complete cds,
- (cxv) M19961 Human cytochrome c oxidase subunit Vb (coxVb) mRNA, complete cds,

- (cxvi) U65579 Human mitochondrial NADH dehydrogenase-ubiquinone Fe-S protein 8, 23 kDa subunit,
- (cxvii) X77794 H. sapiens mRNA for cyclin G1,
- (cxviii) M29064 Human hnRNP B1 protein mRNA,
- (cxix) D21853 Human mRNA for KIAA0111 gene, complete cds,
- (cxx) X78687 H. sapiens G9 gene encoding sialidase,
- (cxxi) X15729 Human mRNA for nuclear p68 protein,
- (cxxii) X04828 Human mRNA for G(i) protein alpha-subunit (adenylate cyclase inhibiting GTP-bind,
- (cxxiii) L27943 H. sapiens cytidine deaminase (CDA) mRNA, complete cds,
- (cxxiv) L40391 H. sapiens (clone s153) mRNA fragment,
- (cxxv) D42123 H. sapiens mRNA for ESP1/CRP2, complete cds,
- (cxxvi) X74104 H. sapiens mRNA for TRAP beta subunit,
- (cxxvii) M84332 Human ADP-ribosylation factor 1 gene, exons 2-5,
- (cxxviii) L37127 H. sapiens RNA polymerase II mRNA, complete cds,
- (cxxix) M92843 H. sapiens zinc finger transcriptional regulator mRNA, complete cds,
- (cxxx) U07664 Human HB9 homeobox gene, exons 2 and 3 and complete cds,
- (cxxxii) L48546 H. sapiens tuberlin (TSC2) gene, exons 38, 39, 40 and 41,
- (cxxxiii) X53586 Human mRNA for integrin alpha 6,
- (cxxxiii) t D21852 Human mRNA for KIAA0029 gene, partial cds,
- (cxxxiv) L11066 Human mRNA sequence,
- (cxxxv) J04444 Human cytochrome c-1 gene, complete cds,
- (cxxxvi) M95787 Human 22kDa smooth muscle protein (SM22) mRNA, complete cds,
- (cxxxvii) L07517 Mucin 6, Gastric (Gb:L07517),
- (cxxxviii) X91247 H. sapiens mRNA for thioredoxin reductase,
- (cxxxix) L11672 Human Kruppel related zinc finger protein (HTF10) mRNA, complete cds,
- (cxli) U30999 Human (memc) mRNA, 3'UTR,
- (cxlii) U01337 Human Ser/Thr protein kinase (A-RAF-1) gene, complete cds,

- (cxlii) U28480 Uncoupling Protein Ucp,
- (cxliii) X12794 Human v-erbA related ear-2 gene,
- (cxliv) L22005 Human ubiquitin conjugating enzyme mRNA, partial cds,
- (cxlv) M12886 Human T-cell receptor active beta-chain mRNA, complete cds,
- (cxlvi) Y08915 H. sapiens mRNA for alpha 4 protein,
- (cxlvii) M24547 Amyloid Beta (A4) Precursor Protein, Alt. Splice 2, A4(751),
- (cxlviii) X76717 H. sapiens MT-11 mRNA,
- (cxlix) M64347 Human novel growth factor receptor mRNA, 3' cds,
- (cl) X05409 Human RNA for mitochondrial aldehyde dehydrogenase I ALDH I (EC 1.2.1.3),
- (cli) D87469 Human mRNA for KIAA0279 gene, partial cds,
- (clii) M58603 Human nuclear factor kappa-B DNA binding subunit (NF-kappa-B) mRNA, complete cds,
- (cliii) M76482 Human 130-kD pemphigus vulgaris antigen mRNA, complete cds,
- (cliv) X06323 Human MRL3 mRNA for ribosomal protein L3 homologue ( MRL3 = mammalian ribosome L,
- (clv) X78992 H. sapiens ERF-2 mRNA,
- (clvi) L41351 H. sapiens prostaticin mRNA, complete cds,
- (clvii) X75342 H. sapiens SHB mRNA,
- (clviii) U83115 Human non-lens beta gamma-crystallin like protein (AIM1) mRNA, partial cds,
- (clix) U88629 Human RNA polymerase II elongation factor ELL2, complete cds,
- (clx) S78825 Id1,
- (clxi) U28811 Human cysteine-rich fibroblast growth factor receptor (CFR-1) mRNA, complete cds,
- (clxii) M58286 H. sapiens tumor necrosis factor receptor mRNA, complete cds,
- (clxiii) D78129 H. sapiens mRNA for squalene epoxidase, partial cds,
- (clxiv) D14874 H. sapiens mRNA for adrenomedullin precursor, complete cds,
- (clxv) Z26317 H. sapiens mRNA for desmoglein 2,
- (clxvi) L19267 H. sapiens 59 protein mRNA, 3' end,

(clxvii) J00120 Proto-Oncogene C-Myc, Alt. Splice 3, Orf 114,  
(clxviii) U33821 Human tax1-binding protein TXBP151 mRNA, complete cds,  
(clxix) U52100 Human XMP mRNA, complete cds,  
(clxx) L31801 H. sapiens monocarboxylate transporter 1 (SLC16A1) mRNA, complete cds,  
(clxxi) L00058 Human (GH) germline c-myc proto-oncogene, exon 3 and 3' flank,  
(clxxii) U52426 H. sapiens GOK (STIM1) mRNA, complete cds,  
(clxxiii) M80244 Human E16 mRNA, complete cds,  
(clxxiv) U56418 Human lysophosphatidic acid acyltransferase-beta mRNA, complete cds,  
(clxxv) L38490 H. sapiens ADP-ribosylation factor mRNA, complete cds,  
(clxxvi) U14603 Human protein-tyrosine phosphatase (HU-PP-1) mRNA, partial sequence,  
(clxxvii) L77886 Human protein tyrosine phosphatase mRNA, complete cds,  
(clxxviii) M38258 Human retinoic acid receptor gamma 1 mRNA, complete cds,  
(clxxix) X89750 H. sapiens mRNA for TGIF protein,  
(clxxx) D85429 H. sapiens gene for heat shock protein 40, complete cds,  
(clxxxi) J05211 Desmoplakin I,  
(clxxxii) M31627 Human X box binding protein-1 (XBP-1) mRNA, complete cds,  
(clxxxiii) X80695 H. sapiens OXA1Hs mRNA,  
(clxxxiv) M54915 Human h-pim-1 protein (h-pim-1) mRNA, complete cds,  
(clxxxv) D83777 Human mRNA for KIAA0193 gene, complete cds,  
(clxxxvi) D31883 Human mRNA for KIAA0059 gene, complete cds,  
(clxxxvii) U00968 Human SREBP-1 mRNA, complete cds,  
(clxxxviii) K03195 Human (HepG2) glucose transporter gene mRNA, complete cds,  
(clxxxix) D86965 Human mRNA for KIAA0210 gene, complete cds,  
(cxc) Z30643 H. sapiens mRNA for chloride channel (putative) 2139bp,  
(cxci) D14520 Human mRNA for GC-Box binding protein BTEB2, complete cds,  
(cxcii) D87462 Human mRNA for KIAA0272 gene, partial cds,  
(cxci) X80692 H. sapiens ERK3 mRNA,  
(cxciv) X90858 H. sapiens mRNA for uridine phosphorylase,

(cxcv) M57763 Human ADP-ribosylation factor (hARF6) mRNA, complete cds,  
(cxevi) X92720 H. sapiens mRNA for phosphoenolpyruvate carboxykinase,  
(cxcvii) M81601 Human transcription elongation factor (SII) mRNA, complete cds,  
(cxcviii) X52611 Human mRNA for transcription factor AP-2,  
(cxcix) U09587 Human glycyl-tRNA synthetase mRNA, complete cds,  
(cc) U14550 Human sialyltransferase SThM (sthm) mRNA, complete cds,  
(cci) D90209 Human mRNA for DNA binding protein TAXREB67,  
(ccii) X77366 H. sapiens HBZ17 mRNA,  
(cciii) X76534 H. sapiens NMB mRNA,  
(cciv) U37519 Human aldehyde dehydrogenase (ALDH8) mRNA, complete cds,  
(ccv) M83667 Human NF-IL6-beta protein mRNA, complete cds,  
(ccvi) U53347 Human neutral amino acid transporter B mRNA, complete cds,  
(ccvii) L09229 Human long-chain acyl-coenzyme A synthetase (FACL1) mRNA, complete cds,  
(ccviii) S73591 brain-expressed HHCPA78 homolog [human, HL-60 acute promyelocytic leukemia cells,  
(ccix) M13929 Human c-myc-P64 mRNA, initiating from promoter P0, (HLmyc2.5) partial cds,  
(ccx) M55268 Human casein kinase II alpha' subunit mRNA, complete cds,  
(ccxi) M77836 Human pyrroline 5-carboxylate reductase mRNA, complete cds,  
(ccxii) HG2724-HT2820\_at S75762 Oncogene Tls/Chop, Fusion Activated,  
(ccxiii) U72066 H. sapiens CtBP interacting protein CtIP (CtIP) mRNA, complete cds,  
(ccxiv) U42031 Human 54 kDa progesterone receptor-associated immunophilin FKBP54 mRNA, partial,  
(ccxv) M27396 Human asparagine synthetase mRNA, complete cds,  
(ccxvi) X01630 Human mRNA for argininosuccinate synthetase,  
(ccxvii) D32050 Human mRNA for alanyl-tRNA synthetase, complete cds,  
(ccxviii) M90656 Human gamma-glutamylcysteine synthetase (GCS) mRNA, complete cds,  
(ccxix) J04102 Human erythroblastosis virus oncogene homolog 2 (ets-2) mRNA, complete cds,  
and

(ccxx) X69111 H. sapiens HLH 1R21 mRNA for helix-loop-helix protein.

Claim 62. (Original): The composition of Claim 60, wherein the selected nucleic acid molecules have a length of 12 plus N bases, wherein N is a whole integer from 0 to 500.

Claim 63. (Original): The composition of matter of Claim 62, wherein the selected nucleic acid molecules are about 21 bases in length.

Claim 64. (Original): The composition of matter of Claim 60 further characterized as an expression array.

Claims 65-97. (Canceled)